Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Missile Defense Agency

Appropriation/Budget Activity R

0400: Research, Development, Test & Evaluation, Defense-Wide I BA 4:

Advanced Component Development & Prototypes (ACD&P)

R-1 Program Element (Number/Name)

PE 0603895C I Ballistic Missile Defense System Space Programs

Date: February 2018

FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	EV 2024	EV 2022	FV 0000	Cost To	Total
				IOtai	F1 2020	FY 2021	FY 2022	FY 2023	Complete	Cost
4 20.910	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
9 19.989	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
5 0.921	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
19	19.989	19 19.989 0.000	19 19.989 0.000 0.000	19 19.989 0.000 0.000 -	19 19.989 0.000 0.000 - 0.000	19 19.989 0.000 0.000 - 0.000 0.000	19 19.989 0.000 0.000 - 0.000 0.000	19 19.989 0.000 0.000 - 0.000 0.000 0.000	19 19.989 0.000 0.000 - 0.000 0.000 0.000 0.000	19 19.989 0.000 0.000 - 0.000 0.000 0.000 0.000 Continuing

Program MDAP/MAIS Code: 362

Note

In accordance with the 2016 National Defense Authorization Act, Section 1601-Major Force Program and Budget for National Security Space Programs, funding for FY2018 and beyond was transferred to PE 1206893C. This move aligns funding to the newly established unified major force program for national security space programs to prioritize national security space activities in accordance with the requirements of the Department of Defense and national security.

A. Mission Description and Budget Item Justification

This program element primarily funds the Spacebased Kill Assessment (SKA) project, a Missile Defense Agency (MDA) experiment to demonstrate kill assessment from space. MDA experience with intercept testing on the Aegis BMD program provided solid understanding of the physics of kill assessment.

Several events set the stage for the kill assessment experiment that later became known as SKA:

- Section 237 in the FY 2014 National Defense Authorization Act directed MDA to improve kill assessment for the GMD program with an initial kill assessment capability by December 31, 2019
- An MDA study called the Space Layer Option Study found that disaggregated systems could provide sensor capabilities at lower costs
- A once in a decade opportunity became available when the commercial sector offered hosted payload services at costs far below what MDA could expect if it used traditional DOD space acquisition models

One feature of the SKA acquisition plays a crucial role in the execution of the experiment: schedule discipline. Since MDA cannot impact the schedule of the commercial host, maintaining schedule pace is priority #1 on the program. If SKA payloads are delivered late to the commercial host, they miss their opportunity to be launched into space.

SKA incorporates Government Accountability Office (GAO) recommendations to examine the operational feasibility of disaggregating large satellites (report number GAO-15-7) and to provide data for the business case for shared or dedicated satellite control, including the ground antenna networks (report number GAO-13-315). The SKA experiment will utilize a network of small IR sensors integrated onto commercial host satellites which, while on orbit, will observe missile defense intercepts and deliver a kill assessment declaration to the BMDS. SKA has the opportunity to change the economics of the defense of the American homeland from enemy ballistic missiles.

PE 0603895C: Ballistic Missile Defense System Space P...

Missile Defense Agency

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Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Missile Defense Agency

Appropriation/Budget Activity

0400: Research, Development, Test & Evaluation, Defense-Wide I BA 4: Advanced Component Development & Prototypes (ACD&P)

R-1 Program Element (Number/Name)

PE 0603895C I Ballistic Missile Defense System Space Programs

Date: February 2018

This program element also funds engineering trade studies and concept evaluations for current and future space based sensors.

B. Program Change Summary (\$ in Millions)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Previous President's Budget	20.690	0.000	0.000	-	0.000
Current President's Budget	20.910	0.000	0.000	-	0.000
Total Adjustments	0.220	0.000	0.000	-	0.000
 Congressional General Reductions 	0.000	0.000			
 Congressional Directed Reductions 	0.000	0.000			
 Congressional Rescissions 	0.000	0.000			
 Congressional Adds 	0.000	0.000			
 Congressional Directed Transfers 	0.000	0.000			
Reprogrammings	0.699	0.000			
SBIR/STTR Transfer	-0.479	0.000			
 FY 2017 Request for Additional 	0.000	0.000	0.000	-	0.000
Appropriations					
 Missile Defeat and Defense Enhancement 	0.000	0.000	0.000	-	0.000
Other Adjustment	0.000	0.000	0.000	-	0.000

Change Summary Explanation

In accordance with the 2016 National Defense Authorization Act, Section 1601-Major Force Program and Budget for National Security Space Programs, funding for FY2018 and beyond was transferred to PE 1206895C. This move aligns funding to the newly established unified major force program for national security space programs to prioritize national security space activities in accordance with the requirements of the Department of Defense and national security.

PE 0603895C: Ballistic Missile Defense System Space P... Missile Defense Agency

Exhibit R-2A, RDT&E Project Ju	Exhibit R-2A, RDT&E Project Justification: PB 2019 Missile Defense Ag									Date: February 2018				
Appropriation/Budget Activity 0400 / 4					R-1 Progra PE 060389 System Sp	ne) o Center (M	DSEC)							
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost		
MD33: MD Space Exp Center (MDSEC)	24.119	19.989	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing		
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-				

Note

In accordance with the 2016 National Defense Authorization Act, Section 1601-Major Force Program and Budget for National Security Space Programs, funding for FY2018 and beyond for PE 0603895C is transferred to PE 1206895C. This move aligns funding to the newly established unified major force program for national security space programs to prioritize national security space activities in accordance with the requirements of the Department of Defense and national security.

A. Mission Description and Budget Item Justification

The SKA system is composed of two segments: a space segment and a ground segment.

- The space segment is composed of a network of small infrared (IR) sensors (sensors, processor cards and cabling), each mated to a different satellite. The total number of sensors and where they are placed in the network are specifically tailored for the kill assessment mission. The space segment includes key design features to improve its resiliency.
- The ground segment is a small network of desktop computers, servers and routers that monitor the health of the on-orbit sensors, command the sensors to perform the kill assessment mission and analyze the data to make a kill assessment determination for the BMDS. The ground segment also includes the equipment necessary for communications security and information assurance. The Missile Defense Space Center (MDSC) is the communications hub for SKA data, routing SKA data between the commercial payload integrator and the SKA Payload Analysis Center.

The SKA sensors are hosted on satellites that are not developed by MDA, thus schedule performance is the highest priority of the experiment. Since the launch of the host satellites will not wait for hosted payloads that are delivered late, the management of the SKA project focuses on the ability to meet schedule commitments. In the past year, the commercial satellite host and the launch site owner have made small changes to the launch schedule; however, those changes have not affected SKA delivery commitments to the satellite integrator - the SKA project remains on schedule.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2017	FY 2018	FY 2019
Title: Spacebased Kill Assessment	19.989	0.000	0.000
Articles:	-	-	-
Description: The SKA project is an experimental system designed to demonstrate kill assessment for Homeland Defense. It includes SKA sensor-host satellite integration and testing, launch preparations, on-orbit checkout, experimental operations, and supports engineering trade studies and concept evaluations for current and future space based sensors. Specific accomplishments by year follow.			
FY 2018 Plans:			

PE 0603895C: Ballistic Missile Defense System Space P... Missile Defense Agency

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Exhibit R-2A, RDT&E Project Jus	tification: PB	2019 Missile	e Defense A	gency				1	Date: Fe	bruary 2018	
Appropriation/Budget Activity 0400 / 4				PE 06		ment (Numb allistic Missile ograms			ct (Number/N I MD Space E		MDSEC)
B. Accomplishments/Planned Pro	ograms (\$ in N	/lillions, Art	icle Quantit	ies in Each)				FY 2017	FY 2018	FY 2019
In accordance with the 2016 Nation Security Space Programs, funding	nal Defense Au	thorization A	Act, Section	1601-Major I	orce Progr		get for Nation	al	-		
FY 2019 Plans: In accordance with the 2016 Nation Security Space Programs, funding	for FY2018 and	d beyond for					get for Nation	al			
FY 2018 to FY 2019 Increase/Dec N/A	rease Statem	ent:									
				Accon	nplishment	s/Planned P	rograms Su	btotals	19.989	0.000	0.00
C. Other Program Funding Sumn	nary (\$ in Milli	ons)									
Line Item	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 202	22 FY 2023	Cost To Complete	
0603882C: Ballistic Missile Defense Midcourse Defense Segment	1,034.861	957.097	926.359	-	926.359	1,046.235	847.537	585.95	572.619	Continuing	Continui
0603884C: Ballistic Missile Defense Sensors	252.665	278.145	220.876	-	220.876	250.238	267.502	263.75	58 260.273	Continuing	Continui
 0603892C: AEGIS BMD 	889.489	860.788	767.539	-	767.539	780.085	707.901	693.25	56 562.748	Continuing	Continui
0603893C: Space Tracking and Surveillance System	37.809	0.000	0.000	-	0.000	0.000	0.000	0.00	0.000	Continuing	Continui
• 0603896C: Ballistic Missile Defense Command and Control, Battle Management & Communication	465.433	454.862	475.168	-	475.168	515.239	494.873	492.11	19 515.529	Continuing	Continui
• 0603904C: Missile Defense Integration and Operations Center (MDIOC)	53.483	53.265	54.925	-	54.925	58.498	57.764	59.02	20 61.915	Continuing	Continui
• 0603914C: Ballistic Missile Defense Test	294.441	316.193	365.681	-	365.681	349.388	320.909	320.33	327.584	Continuing	Continui
• 0603915C: Ballistic Missile Defense Targets	521.784	460.125	517.852	-	517.852	441.827	383.739	405.90	9 417.800	Continuing	Continui
<u>Remarks</u>											

PE 0603895C: *Ballistic Missile Defense System Space P...* Missile Defense Agency

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Missile Defense Agency	/		Date: February 2018
Appropriation/Budget Activity 0400 / 4	,	, ,	umber/Name) O Space Exp Center (MDSEC)

D. Acquisition Strategy

SKA leverages experience that the Johns Hopkins University Applied Physics Laboratory (JHU/APL) has with its extensive history of performing kill assessment activities and conducting experiments associated with the Aegis BMD program. JHU/APL is the developer of the SKA experiment and its primary subcontractor will be responsible for payload integration and hosting accommodation using a firm fixed price contract to contain costs. The SKA experiment uses a commercial satellite program as the platform host for a DOD payload, taking full advantage of a multi-billion dollar space and ground system that already exists. Since MDA and JHU/APL cannot impact the launch schedule of the commercial satellite host, fiscal stability and commitment is required which is a small tradeoff for the significant cost savings that commercial hosting provides.

E. Performance Metrics

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PE 0603895C: Ballistic Missile Defense System Space P... Missile Defense Agency

Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Missile Defense Agency

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Date: February 2018

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

Project (Number/Name)

0400 / 4

PE 0603895C I Ballistic Missile Defense System Space Programs MD33 I MD Space Exp Center (MDSEC)

Product Developmen	nt (\$ in Mi	llions)		FY	2017	FY 2	2018	FY 2 Ba			2019 CO	FY 2019 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Spacebased Kill Assessment - Spacebased Kill Assessment - MDSC Support (JRDC Services Contract)	SS/CPAF	NGIS : Schriever AFB, CO	0.142	0.211	Feb 2017	0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Spacebased Kill Assessment - Spacebased Kill Assessment - SKA Development and Experimentation	C/CPFF	JHU/APL : Laurel, MD	20.948	17.670	Nov 2016	0.000		0.000		-		0.000	Continuing	Continuing	Continuing
		Subtotal	21.090	17.881		0.000		0.000		-		0.000	Continuing	Continuing	N/A

Remarks

N/A

Support (\$ in Millions	s)			FY 2	2017	FY 2	018	FY 2 Ba		FY 2	2019 CO	FY 2019 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Spacebased Kill Assessment - Spacebased Kill Assessment - Contract Support Services (CSS)	C/Various	Various : CO/AL	0.311	0.174	Nov 2016	0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Spacebased Kill Assessment - Spacebased Kill Assessment - FFRDC	C/Various	Various : CO/AL/MD/ VA	1.367	0.647	Nov 2016	0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Spacebased Kill Assessment - Spacebased Kill Assessment - Future Capability	MIPR	Various : Various	0.000	1.003		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Spacebased Kill Assessment - Spacebased Kill Assessment - IT User Services	C/CPAF	Northrup Grumman : AL, AK, CA, CO, HI, NM, VA	0.038	0.042	Oct 2016	0.000		0.000		-		0.000	Continuing	Continuing	Continuing

PE 0603895C: Ballistic Missile Defense System Space P... Missile Defense Agency

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Missile Defense Agency

Appropriation/Budget Activity

0400 / 4

R-1 Program Element (Number/Name)

PE 0603895C I Ballistic Missile Defense System Space Programs Project (Number/Name)

MD33 I MD Space Exp Center (MDSEC)

Date: February 2018

Support (\$ in Millions	s)			FY 2	2017	FY 2	018	FY 2 Ba		FY 2	2019 CO	FY 2019 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Spacebased Kill Assessment - Spacebased Kill Assessment - MDA Civilian	Allot	MDA : VA	0.395	0.210	Oct 2016	0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Spacebased Kill Assessment - Spacebased Kill Assessment - Program Mission Support	C/Various	Various : CO/AL/MD/ VA	0.918	0.032	Oct 2016	0.000		0.000		-		0.000	Continuing	Continuing	Continuing
		Subtotal	3.029	2.108		0.000		0.000		-		0.000	Continuing	Continuing	N/A

Remarks

N/A

	Prior Years	FY 2	2017	FY 2	018	FY 20 Bas	 FY 2019 OCO	FY 2019 Total	Cost To	Total Cost	Target Value of Contract
Project Cost Totals	24.119	19.989		0.000		0.000	-	0.000	Continuing	Continuing	N/A

Remarks

N/A

PE 0603895C: Ballistic Missile Defense System Space P... Missile Defense Agency

Exhibit R-4, RDT&E Schedule	oit R-4, RDT&E Schedule Profile: PB 2019 Missile Defense Age											Date: Fe	bruary 2018	3	
Appropriation/Budget Activity 0400 / 4	PE	0603	895	CIL		ic Miss		Name) efense		•	Number/N D Space E	ame) Exp Center (MDSE	EC)	
Significant Event Complete ▲ Significant Event Planned △	Element Test Com Element Test Plan		♦					Test Compl Test Planne			Complete A Planned Ac				
	ificant Event Planned △ Milestone Decision Planned ☆ Elem			FY 20)17	FY	′ 2018	F	/ 2019	FY 2020)	FY 2021	FY 2022	FY:	2023
SKA Mission Simulation 4			Δ												
SKA Integration and Test with Satellite	- 1Q2017-4Q2017			\$	\$	>									
SKA On-Orbit Check-Out - 4Q2017						>									
SKA Launch #1					Δ										

Exhibit R-4A, RDT&E Schedule Details: PB 2019 Missile Defense Agency			Date: February 2018
Appropriation/Budget Activity 0400 / 4	,	, , ,	umber/Name) O Space Exp Center (MDSEC)

Schedule Details

	St	art	Eı	nd
Events	Quarter	Year	Quarter	Year
SKA Mission Simulation 4	1	2017	1	2017
SKA Integration and Test with Satellite - 1Q2017-4Q2017	1	2017	4	2017
SKA On-Orbit Check-Out - 4Q2017	4	2017	4	2017
SKA Launch #1	4	2017	4	2017

Exhibit R-2A, RDT&E Project Justification: PB 2019 Missile Defense Agency										Date: Febr	uary 2018	
Appropriation/Budget Activity 0400 / 4					, , ,					ct (Number/Name) I Program-Wide Support		
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
MD40: Program-Wide Support	1.965	0.921	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

FY 2017, Program Wide Support PWS reflects a proportional change as a result of decreases to the Ballistic Missile Defense System Space Programs. Beginning in FY 2018, PWS was proportionately reallocated as a result of the Ballistic Missile Defense System Space Programs 0603295C transfer to Ballistic Missile Defense System Space Programs 1206895C program element.

A. Mission Description and Budget Item Justification

PWS contains non-headquarters management costs in support of MDA functions and activities across the entire BMDS. It Includes Government Civilians and Contract Support Services. This provides integrity and oversight of the BMDS as well as supports MDA in the development and evaluation of technologies that will respond to the changing threat. Additionally, PWS includes Global Deployment personnel and support performing deployment site preparation and activation, and provides facility capabilities for MDA Executing Agent locations. Other MDA wide costs includes: physical and technical security; civilian drug testing; audit readiness; the Science, Technology, Engineering, and Mathematics (STEM) program; legal services and settlements; travel and agency training; office, equipment, vehicle, and warehouse leases; utilities and base operations; data and unified communications support; supplies and maintenance; material and readiness and central property management of equipment; and similar operating expenses. PWS is allocated on a pro-rata basis and therefore, fluctuates by year based on the adjusted RDT&E profile (which excludes: 0305103C Cyber Security Initiative, 0603274C Special Programs, 0603913C Israeli Cooperative Program and 0901598C Management Headquarters).

### Title: Program Wide Support ### Articles: 0.921 0.000 0.000 ### Description: N/A ### FY 2018 Plans: N/A ### FY 2019 Plans: N/A ### FY 2018 to FY 2019 Increase/Decrease Statement: N/A	B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2017	FY 2018	FY 2019
Description: N/A FY 2018 Plans: N/A FY 2019 Plans: N/A FY 2018 to FY 2019 Increase/Decrease Statement:	Title: Program Wide Support	0.921	0.000	0.000
FY 2018 Plans: N/A FY 2019 Plans: N/A FY 2018 to FY 2019 Increase/Decrease Statement:	Articles:	-	-	-
N/A FY 2019 Plans: N/A FY 2018 to FY 2019 Increase/Decrease Statement:	Description: N/A			
FY 2019 Plans: N/A FY 2018 to FY 2019 Increase/Decrease Statement:	FY 2018 Plans:			
N/A FY 2018 to FY 2019 Increase/Decrease Statement:	N/A			
FY 2018 to FY 2019 Increase/Decrease Statement:	FY 2019 Plans:			
	N/A			
N/A	FY 2018 to FY 2019 Increase/Decrease Statement:			
	N/A			
Accomplishments/Planned Programs Subtotals 0.921 0.000 0.000	Accomplishments/Planned Programs Subtotals	0.921	0.000	0.000

PE 0603895C: Ballistic Missile Defense System Space P... Missile Defense Agency

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R-1 Line #80

0040

Exhibit R-2A, RDT&E Project Justification: PB 2019 Missile Defense Agend	Date: February 2018				
Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0603895C I Ballistic Missile Defense System Space Programs				
C. Other Program Funding Summary (\$ in Millions) N/A					
Remarks					
D. Acquisition Strategy N/A					
E. Performance Metrics N/A					

PE 0603895C: Ballistic Missile Defense System Space P... Missile Defense Agency

Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Missile Defense Agency

R-1 Program Element (Number/Name)

PE 0603895C I Ballistic Missile Defense System Space Programs Project (Number/Name)

MD40 I Program-Wide Support

Date: February 2018

Support (\$ in Millions	s)			FY 2	2017	FY 2	018	FY 2 Ba		FY 2	2019 CO	FY 2019 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Program Wide Support - Agency Facilities and Maintenance SRM (MIPR)	MIPR	Various : Multi: AL, CO, CA, VA, AK	0.343	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Program Wide Support - Agency Operations Management	C/CPAF	Various : Multi: AL, CA, CO, VA	0.522	0.019	Jul 2017	0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Program Wide Support - Agency Operations and Support Services	C/CPFF	Various : Multi: Al, CA, CO, VA	1.100	0.902	Aug 2017	0.000		0.000		-		0.000	Continuing	Continuing	Continuing
		Subtotal	1.965	0.921		0.000		0.000		-		0.000	Continuing	Continuing	N/A

Remarks

0400 / 4

Appropriation/Budget Activity

N/A

	Prior Years	FY 2	2017	FY 2	2018	FY 2 Ba	FY 2	FY 2019 Total	Cost To	Total Cost	Target Value of Contract
Project Cost Totals	1.965	0.921		0.000		0.000	-	0.000	Continuing	Continuing	N/A

Remarks

N/A

PE 0603895C: Ballistic Missile Defense System Space P... Missile Defense Agency

Exhibit R-4, RDT&E Schedule Profile: PB 2019 Missile Defense Agency Date: February 2018									}
Appropriation/Budget Activity 0400 / 4	PE C	Program Eler 603895C / Ba em Space Pro		oject (Number/Name) 40 / Program-Wide Support					
Significant Event Complete ▲ Significant Event Planned △				evel Test Comp evel Test Planne					
			FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
MD40 Program-Wide Support			\Diamond \Diamond \Diamond						

Exhibit R-4A, RDT&E Schedule Details: PB 2019 Missile Defense Agency		Date: February 2018
Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0603895C I Ballistic Missile Defense System Space Programs	umber/Name) ogram-Wide Support

Schedule Details

	St	art	End		
Events	Quarter	Year	Quarter	Year	
MD40 Program-Wide Support	1	2017	4	2017	